F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	377	465

CONSTRUCTION DETAILS

PHASE IV

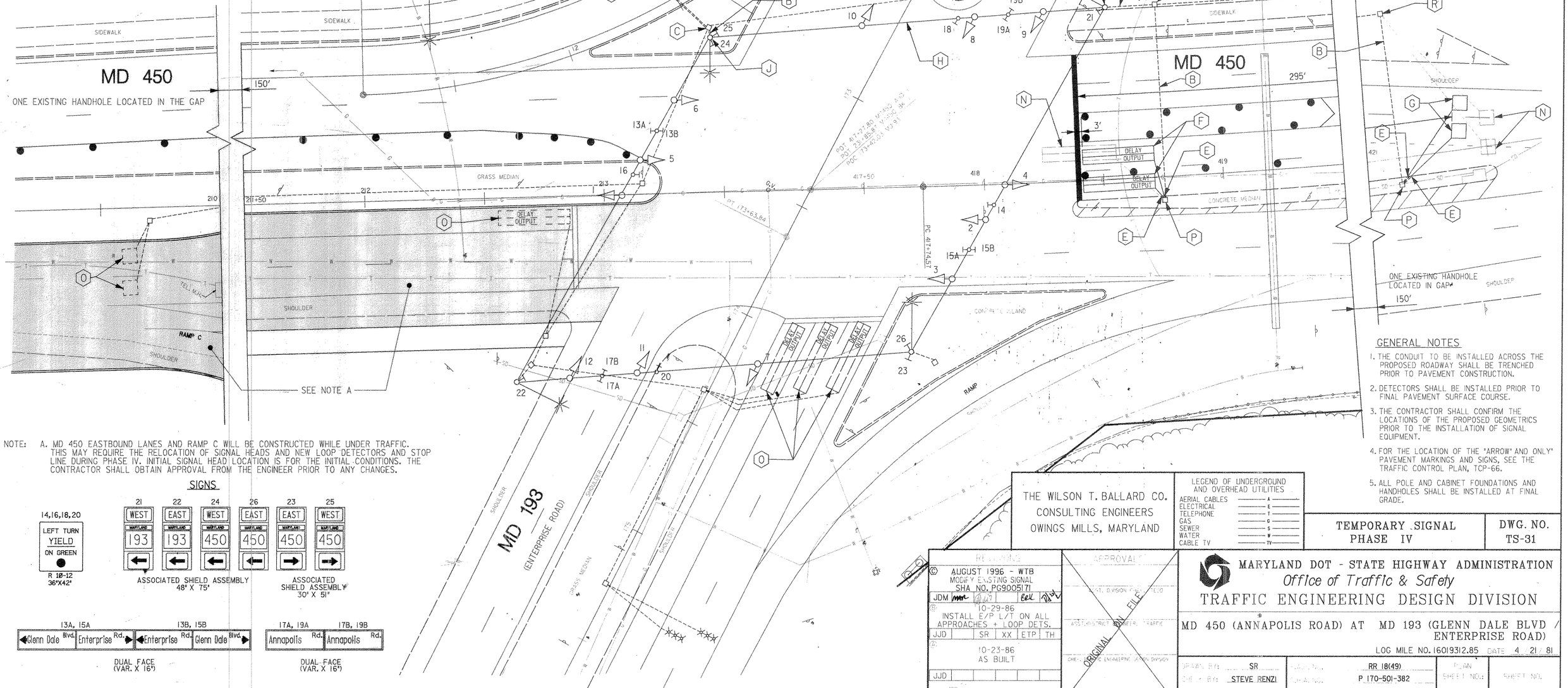
A. EXISTING CABINET/CONTROLER ARE TO BE UTILIZED.
B. USE EXISTING CONDUIT.
C. USE EXISTING HANDHOLE.
D. INSTALL HANDHOLE.
E. INSTALL 1 IN. LIQUID TIGHT, NON-METALLIC CONDUIT FOR LOOP DETECTOR SLEEVE.
F. INSTALL 6 FT. X 30 FT. QUADRUPOLE-TYPE VEHICLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.
G. INSTALL 6 FT. X 6 FT. VEHICLE LOOP DETECTOR (4 TURNS) ENCASED IN FLEXIBLE TUBING.
H. USE EXISTING SPAN WIRE.
J. USE EXISTING STRAIN POLE.
K. REMOVE EXISTING HANDHOLE.
L. CAP AND ABANDON EXISTING CONDUIT.
M. INSTALL 24 IN. PREFORMED WHITE PAVEMENT MARKING TAPE FOR STOP LINE.
N. ABANDON EXISTING VEHICLE DETECTOR.
O. MAINTAIN EXISTING VEHICLE LOOP DETECTOR.
P. USE EXISTING HANDHOLE AND SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR ALUMINUM-SHIELDED CABLE.
Q. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - TRENCHED.
R. USE EXISTING HANDHOLE. DISCONNECT LOOP WIRE AND REROUTE 2-CONDUCTOR CABLE TO HANDHOLE ACROSS THE STREET.

SIGNAL HEADS

1,4,7,10	2,5,8,11	3,6,9,12
R / Y / G	R / Y / G	R / Y / G
12" / 8"	12"	12"

NOTES: ALL SIGNALS AND SIGNS ARE EXISTING TO REMAIN.

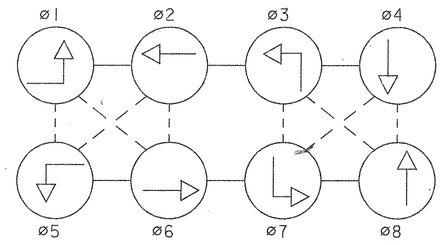
MD 450 ASSUMED TO RUN IN AN EAST - WEST DIRECTION



NOTE: A. MD 450 EASTBOUND LANES AND RAMP C WILL BE CONSTRUCTED WHILE UNDER TRAFFIC. THIS MAY REQUIRE THE RELOCATION OF SIGNAL HEADS AND NEW LOOP DETECTORS AND STOP LINE DURING PHASE IV. INITIAL SIGNAL HEAD LOCATION IS FOR THE INITIAL CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO ANY CHANGES.

SIGNS

NEMA PHASING



PHASING NOTES

1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

FLASHING OPERATION

GENERAL NOTES

1. THE CONDUIT TO BE INSTALLED ACROSS THE PROPOSED ROADWAY SHALL BE TRENCHED PRIOR TO PAVEMENT CONSTRUCTION.
2. DETECTORS SHALL BE INSTALLED PRIOR TO FINAL PAVEMENT SURFACE COURSE.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF THE PROPOSED GEOMETRICS PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
4. FOR THE LOCATION OF THE "ARROW" AND ONLY" PAVEMENT MARKINGS AND SIGNS, SEE THE TRAFFIC CONTROL PLAN, TCP-66.
5. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLES	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TEMPORARY SIGNAL PHASE IV — DWG. NO. TS-31

REVISIONS
© AUGUST 1996 - WTB
MODIFY EXISTING SIGNAL
SHA NO. PG9005171
JDM | | | EEL
10-29-86
INSTALL E/P L/T ON ALL APPROACHES + LOOP DETS.
JJD | | SR | XX | ETP | TH
10-23-86
AS BUILT
JJD

APPROVAL
ORIGINAL ON FILE
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT MD 193 (GLENN DALE BLVD / ENTERPRISE ROAD)
LOG MILE NO. 1601931 2.85 DATE 4 21 81

DRAWN BY: SR	CONTRACT NO.: RR 18(49)	PLAN SHEET NO.: TS-1821C-X3-P	SHEET NO. 377 OF 465
CHK'D BY: STEVE RENZI	JOB NO.: P 170-501-382		
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES		

FILE NO. S3225460.DGN
09-11-96 105 FES